

### AMENDMENTS TO THE CLAIMS

1. (currently amended) A system for elimination of printing registration errors, comprising:  
a processor for computing distortion parameters and an imaging system in communication with said processor and configured for exposing distorted images,  
wherein the processor is a processor programmed for:  
receiving input data including paper data, at least one machine parameter and ink distribution data, the processor calculating image dependent errors from said input data;  
receiving at least one fixed error map dependent on machine parameters and obtained during a calibration run;  
predicting registration errors based on the fixed error map and said image dependent errors; and  
computing distortion parameters based on said registration errors for creating distorted images; and  
~~an exposure system in communication with said processor, said exposure system configured for exposing said distorted images.~~
2. (canceled)
3. (currently amended) The system of ~~claim 2~~claim 1, wherein said ink distribution data for an image file to be exposed is provided by is from a low resolution image file derived from said image file.
4. (currently amended) The system of claim 1, where said ~~exposure~~imaging system includes a strobe card configured for changing timing signals.
5. (original) The system of claim 1, wherein said exposure system includes means for changing the resolution of an image.

6. (currently amended) A method for eliminating printing registration errors in a system comprising a processor for computing distortion parameters and an imaging system in communication with said processor and configured for exposing distorted images, preparation of printing members comprising the steps of:

receiving input data including paper data, at least one machine parameter and ink distribution data;

providing a reference image;

calculating image dependent errors from said input data;

receiving at least one fixed error map dependent on machine parameters and obtained during a calibration run;

predicting registration errors based on the fixed error map and said image dependent errors; and

computing distortion parameters based on said registration errors for creating distorted images

for substantially all of the pixels for at least one separation in said reference image; and  
utilizing at least one of strobe data or data manipulation card in combination with said calculated errors to control the rate of imaging to create a distorted image.

7. (original) The method of claim 6, wherein said step of providing a reference image includes providing said reference image in a low resolution file.

8. (original) The method of claim 6, additionally comprising:

providing a printing member; and

placing said distorted image onto said printing member.

9. (new) The method of claim 6, wherein said step of computing includes providing a reference image, calculating errors for substantially all of the pixels for at least one color separation in said reference image, and utilizing at least one of strobe data or data manipulation

card in combination with said calculated errors to control the rate of imaging to create a distorted image.